

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(non-coring noncoring) with stabiliz\$3 near3 tissue same (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:40
L2	1	(non-coring noncoring) same stabiliz\$3 near3 tissue same (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:40
L3	103	prong\$3 near3 needle and ("600".clas. "606".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:47
L4	3	prong\$3 near3 needle and (non-coring noncoring) and ("600".clas. "606". clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:50
L5	8	prong\$3 and (non-coring noncoring) and ("600". clas. "606".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:51
L6	2113	blunt near6 needle and (spring pneumatic\$4 hydraulic\$4 motor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:56
L7	614	6 and ("600". clas. "606". clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:56

L8	58	(blunt near6 needle and (spring pneumatic\$4 hydraulic\$4 motor\$4)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:56
L9	4	8 and ("600".clas. "606". clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 13:56
L10	56	(blunt adj needle with tissue) and (spring pneumatic\$4 hydraulic\$4 motor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:02
L11	2	(fluid with blunt adj needle with tissue) and (spring pneumatic\$4 hydraulic\$4 motor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:04
L13	9	veress with needle same (pneumatic\$4 hydraulic\$4 motor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:17
L14	20	veress with needle and needle with (pneumatic\$4 hydraulic\$4 motor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:27
L15	1	("5,876,373").PN.	USPAT; USOCR	OR	OFF	2010/07/28 14:42
L16	163	blunt with needle and needle with (pneumatic\$4 hydraulic\$4 motor\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:46
L17	86	blunt with needle and needle with (pneumatic\$4 hydraulic\$4 motor\$4) and needle with fluid	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:49

L18	17	blunt with needle same needle with (pneumatic\$4 hydraulic\$4 motor\$4) and needle with fluid	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 14:52
L19	196	(points tips prongs) with stabiliz\$4 near3 tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 15:00
L20	105	(needle) near4 stabiliz\$4 near3 tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 15:01
L21	0	(05/446346).APP.	US-PGPUB; USOCR	OR	ON	2010/07/28 15:04
L22	28	("1331271" "3181336" "3327710" "3540112" "3594296").PN. OR ("3906932").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/28 15:05
S1	1	"10599366"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/19 16:40
S2	8	((("6514267") or ("6379371") or ("6352519") or ("6361520") or ("4908045") or ("6746464") or ("6669685") or ("4960419"))).PN.	USPAT; USOCR	OR	OFF	2010/01/20 13:00
S3	2	"20040147837"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 13:00
S4	2	"20050010095"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 13:00
S5	1	("6702761").PN.	USPAT; USOCR	OR	OFF	2010/01/20 13:02

S6	2	("0001234").PN.	USPAT; USOCR	OR	OFF	2010/01/20 13:02
S7	13	S2 S3 S4 S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 13:02
S8	2	"20040147837"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 13:16
S9	429977	(remove removes removed removing) with (remain remains remaining)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:42
S10	49795	(needle needle-electrode penetrate penetrating) with (tissue)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:43
S11	4985	S9 and S10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:44
S12	2498	S11 and (ablation ablated cauter\$5 electrocauter\$3 energy energiz\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:45
S13	4255	S9 with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:45
S14	643	S12 and S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:45

S15	75958	"606".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:47
S16	297	S14 and S15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:47
S18	19	S16 and cannula near3 guide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 14:56
S19	173	stylet with cannula and stylet with (energy energiz \$3 current cauter\$3 electrocauter\$3 ablat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 15:04
S20	100	stylet with remov\$3 and S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 15:04
S21	1006	stylet with (hard firm rigid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 15:05
S22	32	S20 and S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 15:05
S23	780	non-coring noncoring non adj coring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:06
S24	2401	non-coring noncoring non adj coring noncore non- core non adj core	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:06

S25	7	S24 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:06
S26	525197	(double two dual) near3 (tip point blade)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:11
S27	212	S24 and S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:11
S28	86	S27 and (RF ablat\$4 cauter \$4 electrocauter\$3 energiz \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:12
S29	3665	blunt near3 (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:19
S30	31	S29 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:19
S31	25	S30 and (suction\$3 vacuum aspirat\$4 fluid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:20
S32	32764	(slender thin) with (tip distal catheter tube) and (suction\$3 vacuum aspirat \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:30
S33	418	S32 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:30

S34	71846	(small short shortened) near3 (diameter) and (suction\$3 vacuum aspirat \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:32
S35	511	S34 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:32
S36	372	S35 and ablat\$4 with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:42
S37	2	"20050010095"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:56
S38	700	S24 with (stylet tip needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 17:58
S39	2404	non-coring noncoring non adj coring noncore non- core non adj core	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 14:23
S40	96	S39 with (cannula trocar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 14:23
S41	402	(stylet trocar) with (various types) with (tips distal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 14:50
S42	402	(stylet trocar) with (various types) with (tips tip distal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 14:50

S43	119	edge with bevel\$3 with (stylelet trocar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:04
S44	1237	bifurcated near\$3 (needle stylelet tip trocar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:43
S45	4	S39 and S44	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:43
S46	1237	bifurcated near\$3 (needle stylelet tip trocar penetrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:44
S47	48	("2359550" "2565865" "3119391" "3194237" "3351059" "3512520" "3766919" "3905371" "3948261" "4040421" "4240423" "4654034" "4740205" "4753641" "4781697" "4782841" "4838877" "5181524" "5632728" "6059737" "6241710" "6298541" "6436086" "6440104" "D426305").PN. OR ("6726649").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:44
S48	3	S39 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:46
S49	54	S39 and (prong pronged)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:46
S50	19	S49 and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:47
S51	92	S46 and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:50
S52	7469	"not" adj cut noncutting non adj cutting non-cutting S39	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:52
S53	1	S51 and S52	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:52
S54	1	S39 and S51	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:53

S55	4	S46 and S39	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:54
S56	104768	(split prong pronged bifurcat\$4) near3 (end needle stylet tip trocar penetrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:54
S57	38	S39 and S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 16:55
S58	19	S57 and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 16:55
S59	1054	(forked fork-like forking) near3 (needle stylet tip trocar penetrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:12
S60	51	S59 and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 17:12
S61	2020	atraumatic with (needle stylet tip trocar penetrator) and (trocar cannula obturator introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:22
S62	5363	(forked fork-like forking bifurcat\$4 split) near3 (needle stylet tip trocar penetrator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:23
S63	31	S61 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:23
S64	2	("2003/0125677").URPN.	USPAT	OR	ON	2010/01/21 17:28
S65	2049	(cannula introducer obturator trocar stylet needle) and 606/41-52. ccls.	USPAT	OR	ON	2010/01/21 17:31
S66	1	"20050159730"	USPAT	OR	ON	2010/01/21 17:33
S67	88	bifurcat\$4 with (stylet tip distal needle) and 606/41- 52.ccls.	USPAT	OR	ON	2010/01/21 17:34

S68	57	(cannula introducer obturator trocar) and S67	USPAT	OR	ON	2010/01/21 17:35
S69	85	(needle tip stylet) with (stabiliz\$3 fixat\$3) and 606/41-52.ccls.	USPAT	OR	ON	2010/01/21 17:38
S70	34	(cannula introducer obturator trocar) and S69	USPAT	OR	ON	2010/01/21 17:38
S71	155	("1879248" "2008526" "2038393" "3556079" "3595239" "4016886" "4119102" "4204549" "4311154" "4402311" "4411266" "4448198" "4470407" "4474174" "4524770" "4552554" "4565200" "4568329" "4682596" "4719914" "4753223" "4800899" "4813429" "4823791" "4860744" "4905667" "4907589" "4919129" "4943290" "4950267" "5007908" "5025799" "5071418" "5122137" "5197963" "5234004" "5249585" "5273524" "5366490" "5370675" "5385544" "5403311" "5409453" "5529574" "5531676").PN. OR ("5800378").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/21 17:40
S72	20	S39 near4 edge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:46
S73	372	atraumatic near4 edge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:47
S74	225	S73 and (trocar cannula stylet introducer obturator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:48
S75	108	S74 and (energiz\$4 RF radiofrequency radio adj frequency radio-frequency HF high-frequency high adj frequency ablat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:49

S76	2404	non-coring noncoring non adj coring noncore non- core non adj core	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:42
S77	56	S76 with edge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:42
S78	673	S76 same needle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:46
S79	95	S76 same edge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:47
S80	57512	edge same needle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:47
S81	34	S78 and S79 and S80	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 11:47
S82	6	("3071135").URPN.	USPAT	OR	ON	2010/01/22 11:49
S83	724	604/272.ccls. 604/274.ccls.	USPAT	OR	ON	2010/01/22 11:55
S84	65	("3175554").URPN.	USPAT	OR	ON	2010/01/22 11:57
S85	3699	biopsy with needle	USPAT	OR	ON	2010/01/22 12:09
S86	6	S76 and S85	USPAT	OR	ON	2010/01/22 12:10
S87	2	S76 and 606/41-52.ccls.	USPAT	OR	ON	2010/01/22 12:15
S88	1	("5910150").PN.	USPAT; USOCR	OR	OFF	2010/01/22 12:35

S89	0	S76 and S84	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 12:38
S90	35	(US-20080228104-\$ or US-20060253076-\$ or US-20070032821-\$ or US-20020198554-\$ or US-20040116953-\$ or US-20030125677-\$ or US-20030125675-\$ or US-20040220533-\$ or US-20050159730-\$).did. or (US-4960419-\$ or US-6361520-\$ or US-6352519-\$ or US-6379371-\$ or US-5025797-\$ or US-3630192-\$ or US-6478793-\$ or US-3906932-\$ or US-4686962-\$ or US-6425887-\$ or US-4840184-\$ or US-5314462-\$ or US-5624459-\$ or US-6077179-\$ or US-6159200-\$ or US-6258000-\$ or US-6478806-\$ or US-5873879-\$ or US-6730059-\$ or US-6517523-\$ or US-5752942-\$ or US-3788320-\$).did. or (US-3175554-\$ or US-3071135-\$).did. or (US-3906932-\$ or EP-1698318-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2010/01/22 12:38
S91	9	S90 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 12:38
S92	29741	remov\$4 near4 (cannula sheath introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:02
S93	768	S92 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:02

S94	507	S92 and 606/41.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:03
S95	401	S94 and (punctur\$3 pierc \$4 penetrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:03
S96	338	S95 and (stylet trocar needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:04
S97	22887	remov\$4 near2 (cannula sheath introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:07
S98	11160	S97 and (punctur\$3 pierc \$4 penetrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:08
S99	302	S98 and 606/41.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:08
S100	256	S96 and S99	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:08
S101	148	remov\$4 near2 (cannula sheath introducer) with expos\$3 near3 (stylet needle punctur\$4 pierc\$4 penetrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:22
S102	0	S101 and 606/41-52.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:23

S103	193	remov\$4 near3 (cannula sheath introducer) with expos\$3 near3 (stylet needle punctur\$4 pierc\$4 penetrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:23
S104	270	remov\$4 near3 (cannula sheath introducer) with (expos\$3 remain\$3) near3 (stylet needle punctur\$4 pierc\$4 penetrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:23
S105	2	S104 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:24
S106	26645	(needle stylet trocar) with (electrode conductive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:43
S107	217652	(remov\$4 retract\$4 withdraw\$3) near4 (sheath sleeve cannula shaft introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:44
S108	2239	S106 and S107	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:44
S109	72360	(rigid hard firm) near4 (sheath sleeve cannula shaft introducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:45
S110	585	S108 and S109	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:45
S111	312	S110 and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 13:45

S112	56	uber-arthur\$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S113	231	griffiths-david\$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S114	107	hirschman-alan\$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S115	324	S112 S113 S114	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S116	63	S115 and tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:46
S117	36	S116 and (needle pierc\$4 punctur\$4 penetrat\$4 stylet sharp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:47
S118	630	medrad.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:52
S119	15942	non-coring noncoring non adj coring noncore non- core non adj core coring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:52
S120	4	S118 and S119	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 15:52

S121	411	electrical with energy with mechanical and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:12
S123	57	S121 and penetrat\$3 with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:12
S124	2	electrical with energy with mechanical with penetrat \$4 with tissue and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:15
S126	4	electrical with energy with mechanical same penetrat \$4 with tissue and 606/41-52.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:16
S127	16	electrical with energy with mechanical same penetrat \$4 with tissue and "606".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:16
S128	167	electrical with energy with mechanical and penetrat\$4 with tissue and "606".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:19
S129	124	electrical with energy with mechanical and (blade knife).ab. and "606".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:25
S130	21	catheter with penetrat\$4 with tissue with mechanical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:29
S131	1	"10599366"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:35

S132	804	catheter with penetrat\$4 with tissue and (compressed adj air hydraulic spring)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:36
S133	8	(knife blade).ab. and S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:37
S134	1	("5669883").PN.	USPAT; USOCR	OR	OFF	2010/07/26 15:39
S135	1	("6669685").PN.	USPAT; USOCR	OR	OFF	2010/07/26 15:41
S136	1	("6478793").PN.	USPAT; USOCR	OR	OFF	2010/07/26 15:41
S137	123256	(spring compressed adj air hydraulic) with (blade knife)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:53
S138	1769	catheter with penetrat\$4 with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:53
S139	1	S137 and S138	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:54
S140	2128	catheter with (penetrat\$4 pierc\$3) with tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:57
S141	4	S137 and S140	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 15:57

S142	862	cannula with catheter and (biopsy biopsies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:20
S143	412	S142 and (spring spring-loaded)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:20
S144	363	S143 and needle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:22
S145	0	S144 and repetitiv\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:35
S147	36	S144 and repetitiv\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:35
S148	34	S144 and oscillat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/26 16:37
S149	862	cannula with catheter and (biopsy biopsies)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:48
S150	862	S149	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:48
S151	256	S150 and actual\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:48

S152	181	S151 and ("600".clas. "607".clas. "606".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:48
S153	970	catheter same (biopsy biopsies) and actual\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:49
S154	699	S153 and ("600".clas. "607".clas. "606".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:49
S155	471	S154 and needle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 10:50
S156	2407	(biopsy with needle).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:02
S157	345	S156 and catheter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:02
S158	4	S157 and mechanical with energy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:02
S159	230	(biopsy with needle same catheter).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:08
S160	2	S159 and (stor\$3 near4 energy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:10

S161	1260	(biopsy with needle same catheter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:10
S162	26	S161 and (stor\$3 near4 energy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:10
S163	1281	(biopsy with (stylet needle) same catheter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:11
S164	26	S163 and (stor\$3 near4 energy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:11
S165	23622	catheter with (needle stylet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:17
S166	11908	biopsy with (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18
S167	1556	S165 and S166	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18
S168	521	S167 and spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18
S169	11908	biopsies with (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18

S170	1556	S165 and S169	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:18
S171	521	S170 and spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:19
S172	521	S168 S171	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:19
S173	575	S167 and (spring pneumatic\$4 stored adj energy hydraulic\$5 compress\$3 adj air)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 11:23
S174	23622	catheter with (needle stylet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49
S175	11908	biopsy with (stylet needle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49
S176	1556	S174 and S175	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49
S177	575	S176 and (spring pneumatic\$4 stored adj energy hydraulic\$5 compress\$3 adj air)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49
S178	234	S177 and actual\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/27 12:49

S179	55	("4166469" "4281660" "4309994" "4401433" "4445509" "4525157" "4602645" "4624265" "4652256" "4664120" "4681117" "4790825" "4804359" "4821735" "4926858" "4979939" "4991578" "5078723" "5127917").PN. OR ("5330496").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 13:14
S180	300	catheter with (deflect\$4 steer\$4) with (penetrat\$4 pierc\$3 biopsy biopsies)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 13:20
S181	184	S180 and spring	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 13:20
S182	108	catheter near3 remain\$3 and catheter with (biopsy biopsies) and needle	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:32
S183	49	S182 and spring	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:32
S184	121	((flexible deflectable) with (biopsies biopsy)).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:42
S185	108	S184 and remov\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:42
S186	70	S185 and (spring pneumatic\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:52
S187	73	S184 and (remov\$4 withdraw\$3) and (spring pneumatic\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 14:53
S188	573916	(remov\$4 withdraw\$3) with (remain\$3 stationary)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:15
S189	16	S184 and S188 and (spring pneumatic\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:16
S190	582450	(remov\$4 withdraw\$3) with (remain\$3 stationary stays)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:21
S191	2158	((flexible deflectable) with (biopsies biopsy needle stylet penetrat\$4 pierc\$3)).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:22
S192	296	S191 and S190	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:22
S193	124	S192 and (remov\$4 withdraw\$3) and (spring pneumatic\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:22
S194	18	pneumatic\$5 same (biopsies biopsy needle stylet penetrat\$4 pierc\$3) same (flexible deflectable).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:51

S195	4075	((biopsies biopsy needle stylet penetrat\$4 pierc\$3) same (flexible deflectable)).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:53
S196	153	S195 and pneumatic\$5	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:54
S197	39	S196 and (sheath introducer cannula catheter)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 15:54
S198	4216	(tip needle stylet penetrat \$4 pierc\$3) with (pneumatic\$5 mechanical \$5 spring) near\$3 actual\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 16:24
S199	49	S195 and S198	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 16:25
S200	151277	(tip needle stylet penetrat \$4 pierc\$3) with remov\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 16:26
S204	31	S200 and S199	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/27 16:28
S205	322	(needle same stylet same cannula).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:03
S206	103	S205 and (spring hydraulic \$4 pneumatic\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:03
S207	573916	(remov\$4 withdraw\$3) with (remain\$3 stationary)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/28 11:12
S208	573916	S207	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:12
S209	33	S207 and S206	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:12
S210	23	(trocar same biopsy same cannula).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:23

S212	8	S210 and (spring hydraulic \$4 pneumatic\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/28 11:23
S213	1	("6478793").PN.	USPAT; USOCR	OR	OFF	2010/07/28 11:53
S214	1	("6120520").PN.	USPAT; USOCR	OR	OFF	2010/07/28 12:03
S215	1	(08/863877).APP.	USPAT; USOCR	OR	OFF	2010/07/28 12:09
S216	1	("3,906,932").PN.	USPAT; USOCR	OR	OFF	2010/07/28 12:12

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